

Serial No.: 10/772,989

Confirmation No.: 5392

Filed: February 5, 2004

For: NOVEL LEAD FIXATION MEANS

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the above-identified application:

1-2. (Cancelled)

3. (Previously Presented) The medical lead of claim 12, wherein said glue segment is a tissue adhesive comprising n-butyl cyanoacrylate.

4. (Previously Presented) The medical lead of claim 12, wherein said glue segment is a tissue adhesive comprising a fibrin glue.

5-6. (Cancelled)

7. (Previously Presented) The medical lead of claim 12, wherein said glue segment is formed in a tubular shape.

8-10. (Cancelled)

11. (Previously Presented) The medical lead of claim 12, wherein said tip electrode is formed from a helix-coil.

12. (Previously Presented) A medical lead, comprising:
an elongated lead body having a longitudinal axis and terminating in a distal end surface;
a tip electrode extending outward from the distal end surface of the lead body in a direction that is substantially aligned with the longitudinal axis of the elongated lead body; and
a glue segment extending outward from the distal end surface of the lead body in a direction that is substantially aligned with the longitudinal axis of the elongated lead body and

Serial No.: 10/772,989

Confirmation No.: 5392

Filed: February 5, 2004

For: NOVEL LEAD FIXATION MEANS

disposed within said tip electrode to affix said electrode to a treatment site, wherein the glue segment is encapsulated within a biocompatible capsule.

13-17. (Cancelled)

18. (Currently Amended) A system for affixing a medical lead to a tissue site, the system comprising:

a medical lead including a lead body of a first diameter and a tip electrode formed from a helix-coil;

a delivery catheter having a catheter lumen of a second diameter that is larger than said first diameter of the lead body and adapted to receive said medical lead therein and to permit said medical lead to be advanced therethrough;

a glue segment disposed at a distal end of said lead, the glue segment comprising a tissue adhesive adapted to affix said medical lead to the tissue; and

a guard disposed about said lead body being proximal to and in proximity to said glue segment, said guard being of a third diameter that is larger than said first diameter of the lead body and smaller than said second diameter of the delivery catheter lumen, said guard projecting outward from said lead body to prevent said glue segment from contacting a wall of said delivery catheter lumen as said lead is advanced therethrough.

19. (Cancelled)

20. (Previously Presented) The system of claim 18, wherein said tissue adhesive comprises a n-butyl cyanoacrylate.

21. (Original) The system of claim 18, wherein said tissue adhesive comprises a fibrin glue.

22. (Cancelled)

Serial No.: 10/772,989

Confirmation No.: 5392

Filed: February 5, 2004

For: NOVEL LEAD FIXATION MEANS

23. (Previously Presented) The system of claim 18, wherein said glue segment is formed in an annular shape.

24. (Previously Presented) The system of claim 18, wherein said glue segment is formed in a tubular shape.

25. (Cancelled)

26. (Previously Presented) The system of claim 18, wherein said glue segment includes dots of tissue adhesive.

27-28. (Cancelled)

29. (Cancelled)

30. (Currently Amended) The system of claim ~~[[27]]~~ 18, wherein said tissue adhesive is disposed about said tip electrode.

31. (Cancelled)

32. (Original) The system of claim 18, wherein said catheter includes a balloon disposed at a distal end of said catheter and adapted to clear said tissue site.

33. (Original) The system of claim 18, wherein said catheter is adapted to apply suction in proximity to said tissue site.

Serial No.: 10/772,989

Confirmation No.: 5392

Filed: February 5, 2004

For: NOVEL LEAD FIXATION MEANS

34. (Original) The system of claim 18, wherein said catheter includes mapping electrodes.

35. (Original) The system of claim 18, further comprising an implantable medical device adapted for coupling to said medical lead.

36. (Cancelled)

37. (Currently Amended) A system for affixing a medical lead to a tissue site, the system comprising:

a medical lead including a lead body of a first diameter and a tip electrode formed from a helix-coil;

a delivery catheter having a catheter lumen of a second diameter that is larger than said first diameter of the lead body and adapted to receive said medical lead therein and to permit said medical lead to be advanced therethrough;

a glue segment disposed at a distal end of said lead, the glue segment comprising an unencapsulated tissue adhesive adapted to affix said medical lead to the tissue; and

a guard disposed about said lead body being proximal to and in proximity to said glue segment, said guard being of a third diameter that is larger than said first diameter of the lead body and smaller than said second diameter of the delivery catheter lumen, said guard projecting outward from said lead body to prevent said glue segment from contacting a wall of said delivery catheter lumen as said lead is advanced therethrough.